

Patent Number
Title

J02160891-A
ARAMID FIBRE REINFORCED EXPANDED GRAPHITE SHEET
MATERIAL - OBTD. BY MIXING ARAMID FIBRE PULP, FINE
PHENOL RESIN, BLENDING WITH EXPANDED GRAPHITE, GRINDING
ETC.

Patent Assignee
Publication Date
Abstract

NIPPON GASKET KK
06/20/90
THE ARAMID FIBRE REINFORCED EXPANDED GRAPHITE SHEET
MATERIAL COMPRISES 100 PTS. WT. OF EXPANDED GRAPHITE;
3-50 PTS. WT. OF ARAMID FIBRE AS REINFORCING MATERIAL;
AND 3-10 PTS. WT. OF PHENOLIC RESIN BINDER.
PREPN. COMPRISES OPENING AN ARAMID FIBRE PULP, 100 PTS.
WT., WITH A MIXER; MIXING WITH 3-10 PTS. WT. OF FINE
PHENOLIC RESIN PARTICLES; 100 PTS. WT. OF EXPANDED
GRAPHITE PARTICLES ARE THEN BLENDED; AND THE MIXT. IS
GROUND TO A SPECIFIC VOL. LESS THAN 50 ML/G. OPT. 100
PTS. OF THE GROUND MIXT. IS BLENDED WITH 5-200 PTS. WT.
OF THE RECLAIM OBTD. BY GRINDING RESIDUES OF THE SHEET
OBTD. TO A SPECIFIC VOL. LESS THAN 50 ML/G; PRESSING THE
GROUND MIXT. INTO A SHEET OF A BULK DENSITY OF ABOUT 1.
THE PHENOLIC RESIN BINDER IS FINALLY CURED BY HEATING
THE MOULDED SHEET AT 150 DEG.C.
THE EXPANDED GRAPHITE IS OBTD. BY TREATING NATURAL
GRAPHITE OR KISH GRAPHITE WITH A STRONG OXIDISING AGENT
LIKE A MIXT. OF CONC. H₂SO₄ + CONC. HNO₃ OR H₂SO₄ +
H₂O₂.

USE/ADVANTAGE - THE GASKET IS USED FOR SEALING
CLEARANCES BETWEEN CYLINDER HEADS AND CYLINDER BLOCKS IN
INTERNAL ENGINES. THE GASKET HAS UNIFORM DENSITY AND
STRENGTH AND ESP. GOOD RESISTANCES TO ENGINE OIL AND
ANTIFREEZE. THE PROCESS ALLOWS RECOVERY OF THE RECLAIM
AND SO IS VERY ECONOMICAL. (5PP DWG.NO.0/0)